AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method of estimating a signal-to-noise ratio of a digital signal received by a radiocommunications receiver, the method comprising:

estimating separately a wanted signal and a noise signal of the digital signal;

filtering separately the wanted signal and the noise signal; and

determining the signal-to-noise ratio by dividing the wanted signal which has been filtered by the noise signal which has been filtered,

wherein the filtering of the noise signal comprises determining a noise value which is used to determine the signal-to-noise ratio based on a statistical distribution of noise power measurements for a predetermined period during which a statistically representative number of measurement samples is collected and which is sufficiently short for the noise signal to remain practically stationary,

wherein a first order auto-regressive infinite impulse response filter is used filter the wanted signal as expressed by the equation:

$$\hat{x}_i = (1 - a) \tilde{x}_i + a \hat{x}_{i-1}$$

where \tilde{x}_i represents an instantaneous estimate of the wanted signal at time i, \hat{x}_i represents a smoothed estimate of the wanted signal at time i and a is an integration coefficient.

AMENDMENT UNDER 37 C.F.R. § 1.116 U.S. Patent Application No. 09/786,553

2. (Previously Presented) A method according to claim 1, wherein the filtering of the wanted signal is different from the filtering of the noise signal.

3. (Canceled)

- 4. (Currently Amended) A method according to claim 1, wherein the noise value is determined such that a probability that an instantaneous noise level exceeds [[that]] the noise value is less than a predetermined threshold during the predetermined period.
- 5. (Previously Presented) A method according to claim 1, wherein the noise value used to determine the signal-to-noise ratio is a maximum value of the measurement samples over the predetermined period.
- 6. (Previously Presented) A method according to claim 1, wherein moments of the distribution are determined.
- 7. (Previously Presented) A method according to claim 6, wherein an average μ and a variance σ^2 of the distribution are determined in that the noise value used is μ + $n\sigma$, where σ is a standard deviation and n is a number determined according to the predetermined threshold.

AMENDMENT UNDER 37 C.F.R. § 1.116 U.S. Patent Application No. 09/786,553

8.	(Previously Presented) A method according to claim 1, wherein a finite or infinite
impulse respo	nse low-pass filter is used to filter the noise signal.

- 9. (Canceled)
- 10. (Canceled)
- 11. (Currently Amended) A method according to claim [[9]] 1, wherein a transmitter provides a reference signal with a regular period at a particular level and the reference signal is utilized as the wanted signal to estimate the signal-to-noise ratio.
 - 12. (Canceled)
 - 13. (Canceled)
- 14. (Currently Amended) A method according to claim [[12]] 1, wherein packets or cells are received sporadically and each packet or cell received is filtered.
- 15. (Previously Presented) A method according to claim 1, further comprising the signal-to-noise ratio controlling a transmit power of a corresponding transmitter based on the signal-to-noise ratio.